ORDER NO. AD9004070C2

Service Manual

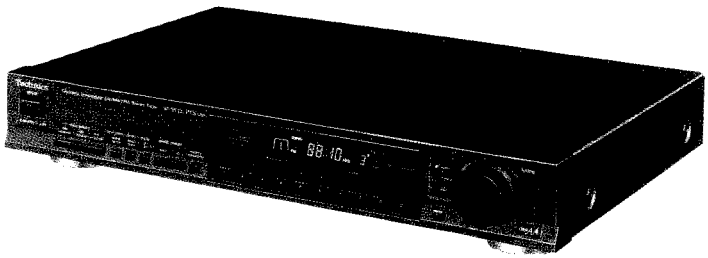
Tuner

ST-G570L

QUARTZ Synthesizer
LW/MW/FM Stereo Tuner

Color

(K)	Black Type
(S)	Silver Type



Area

Country Code	Area	Color
(E)	Continental Europe	(K) (S)
(EB)	Great Britain	(K) (S)

SPECIFICATIONS

(DIN 45 500)

■ FM TUNER SECTION

Frequency range	87.50~108.00 MHz
	87.525~108.00 MHz (+25 kHz shift)
Sensitivity	1.5 µV (IHF, usable)
S/N 30 dB	1.3 µV (75 Ω)
S/N 26 dB	1.2 µV (75 Ω)
S/N 20 dB	0.9 µV (75 Ω)
IHF 46 dB stereo quieting sensitivity	28 µV/75 Ω
Total harmonic distortion	
MONO (normal)	0.015 %
STEREO (normal)	0.02 %
S/N	
MONO	72 dB (80 dB, IHF)
STEREO	66 dB (73 dB, IHF)
Frequency response	4 Hz~15 kHz, +0.5 dB~−1.0 dB
Alternate channel selectivity	
normal ±400 kHz	50 dB
super narrow ±200 kHz	25 dB
Capture ratio	1.0 dB
Image rejection at 98 MHz	100 dB
IF rejection at 98 MHz	100 dB
Spurious response rejection at 98 MHz	110 dB
AM suppression	55 dB
Stereo separation	
1 kHz	60 dB
10 kHz	45 dB
Carrier leak	
19 kHz	−55 dB (−60 dB, IHF)
38 kHz	−40 dB (−45 dB, IHF)
Channel balance (250 Hz~6,300 Hz)	±1.0 dB
Limiting point	0.85 µV
Bandwidth	
IF amplifier	180 kHz
FM demodulator	1000 kHz
Antenna terminals	75 Ω (unbalanced)

■ AM TUNER SECTION

Frequency range	
MW	522 kHz~1611 kHz (9-kHz steps)
	530 kHz~1620 kHz (10-kHz steps)
LW	155 kHz~353 kHz (9-kHz steps)
	153 kHz~351 kHz (−2-kHz shift)
Sensitivity (S/N 20 dB)	
MW	20 µV, 300 µV/m
LW	50 µV
Selectivity (±9 kHz)	
MW (at 999 kHz)	50 dB
LW (at 254 kHz)	50 dB
Image rejection	
MW (at 999 kHz)	40 dB
LW (at 254 kHz)	40 dB
IF rejection	
MW (at 999 kHz)	60 dB
LW (at 254 kHz)	35 dB

■ GENERAL

Output voltage	0.3 V (0.6 V IHF)
Power consumption	9 W
Power supply	
For Great Britain	AC 50 Hz/60 Hz, 240 V
For others	AC 50 Hz/60 Hz, 220 V
Dimensions (W × H × D)	430 × 69 × 298 mm
	(16-15/16″ × 2-23/32″ × 11-23/32″)
Weight	2.7 kg (6 lb.)

Note:
Specifications are subject to change without notice. Weight and dimensions are approximate.

Technics

Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

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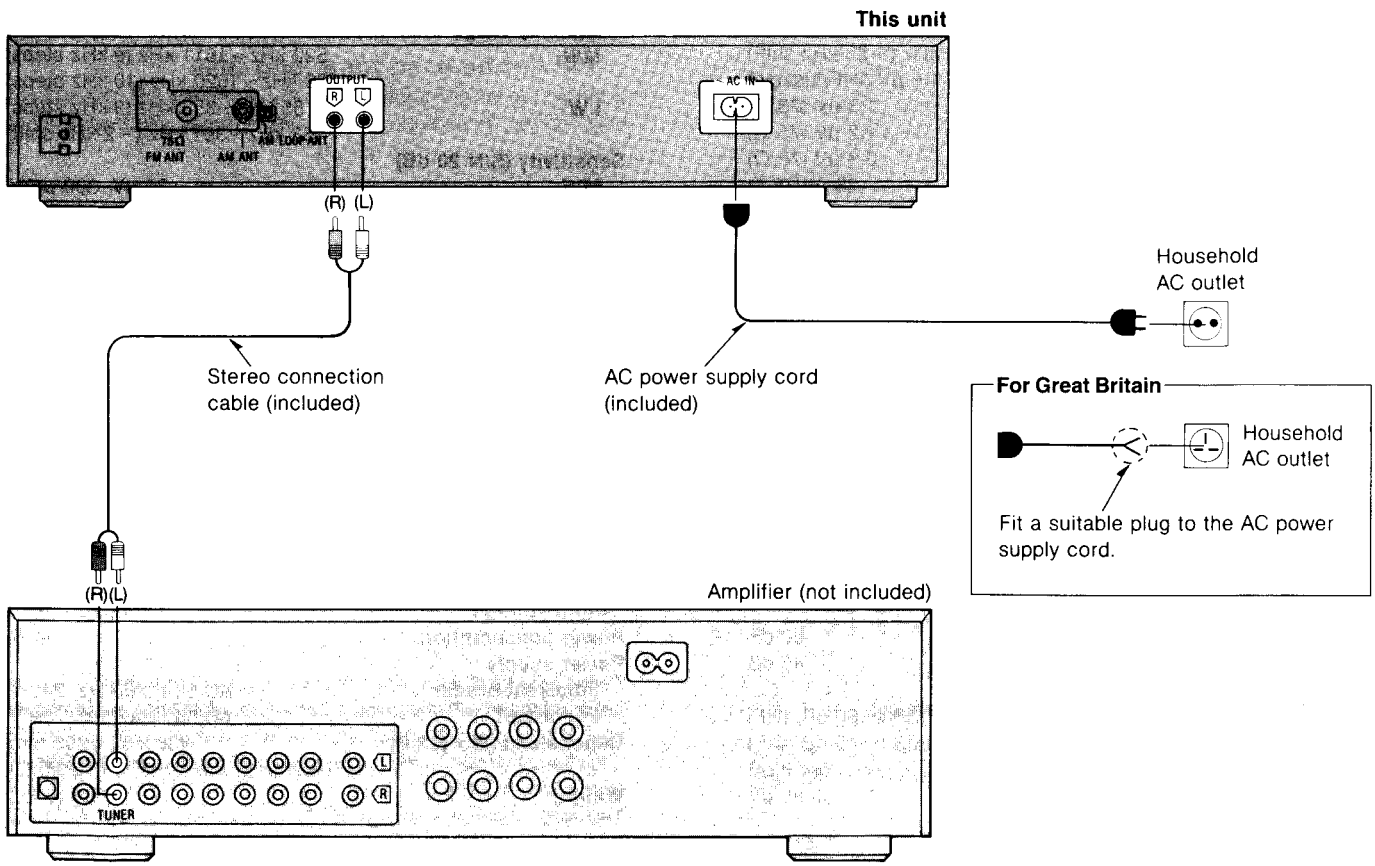
■ ACCESSORIES

- AC power supply cord 1
  For [EB] area only (SJA193)
  For others areas (SFDAC05E03)
- Stereo connection cable 1
  (SJP2276)
- FM indoor antenna 1
  (SSA270M)
- AM loop antenna Ass'y 1
  (SPB1162T)
- AM antenna holders 2
  (SMA233-1M)
  (SMA231M)
- Screws 2
  (XTB3+10AFZ)
- Attachment plug 1
  For [EB] area only (SJP9009)

■ CONNECTIONS



ORDER NO. AD9004070C2-A

Tuner

ST-G570L

DEUTSCH

■ MESSUNGEN UND EINSTELL METHODEN

■ LW/MW/FM

Einstellungen der Bedienelemente und zu verwendende Geräte.

- MW und UKW Meßsender (MW und UKW Nebsender)
- Stereo-Modulator
- Verzerrungs-Analystator
- Elektronische Wechselstrom-und Gleichstrom-Voltmeter (EVM)
- Keramischer Kondensator (200pF)
- Oszilloskop
- Frequenzzähler
- Drosselspule (100µH)

Anmerkung: Für **Z202**, **L303** und **L304**, werdeven justiert Ersatzteil geliefert. Dien Kern dieses Teils daher nicht drehen.

MW-HF-JUSTIERUNG

1. Der Testaufbau ist in der Abbildung gezeigt.
2. Stellen Sie die Einheit auf "**MW**" Betrieb.
3. Radio und Signalgenerator auf **612kHz** einstellen.
4. **Z201** (MW-Antennenspule) auf maximale Ausgangsleistung abgleichen.
5. Die Schritte 3, 4 wiederholen.

Anmerkung:
Der Antenneneingang-Signalpegel muß so niedrig wie möglich und frei von automatischer werstärkungsregelung (AGC) sein.

LW-HF-JUSTIERUNG

1. Der Testaufbau ist in der Abbildung gezeigt.
2. Stellen Sie die Einheit auf "**LW**" Betrieb.
3. Die Radiofrequenzanzeige und den Messender auf **155kHz** einstellen.
4. **Z201** (LW-Antennenspule) auf maximale Ausgangsleistung abgleichen.
5. Die Schritte 3, 4 wiederholen.

Anmerkung:
Der Antenneneingang-Signalpegel muß so niedrig wie möglich und frei von automatischer werstärkungsregelung (AGC) sein.

UKW-MONO-VERZERRUNGS-JUSTIERUNG

1. Der Testaufbau ist in der Abbildung gezeigt.
2. Stellen Sie die Einheit auf "**FM (UKW) und IF normal**" Betrieb.
3. Die Radiofrequenzanzeige und den Messender auf **100.10MHz** einstellen.
4. Den Kern von **T101** so justieren, daß die im Signalzustand gemessene Spannung **0mV (0± 20 mV)** im 300 mV-Bereich beträgt.
5. **T102** so justieren, daß der Verzerrungsfaktor des linken Kanals minimal wird.
6. Schritte 4 und 5 einige Male wiederholen.
7. Versichern Sie sich, daß die Verzerrungsfaktoren von Kanal L und Kanal R annähernd gleich sind und auf ein Minimum gehalten sind.

Anmerkung:
Für die Justierung ist ein Schraubendreher aus Kunststoff zu verwenden.

TRENNUNGS-JUSTIERUNG

1. Der Testaufbau ist in der Abbildung gezeigt.
2. Stellen Sie die Einheit auf "**FM und IF normal**" Betrieb.
3. Die Radiofrequenzanzeige und den Messender auf **100.10 MHz** einstellen.
4. **VR301** so justieren, daß der R-Ausgang minimal ist, wenn der Stereomodulator im L-Betriebszustand (Linker Kanal moduliert) ist.

UKW-SIGNALSTÄRKEPEGELS-JUSTIERUNG

1. Für den Anschluß des Prüfgerätes siehe die Abbildung.
2. Das Gerät auf "**FM und IF normal**" stellen.
3. Das Hochfrequenz-Anzeigegerät und den Signalgenerator auf **100.10 MHz** stellen.
4. Durch Drücken der UKW-Signaltaste das Flüssigkristalldisplay von "frequency" auf "dB" umschalten.
5. **VR101** so einstellen, daß **54dB** angezeigt wird. "**54dB**" wird auf dem Flüssigkristalldisplay angezeigt.
6. Die Schritte 4, 5 wiederholen.

FRANCAIS

■ MEAURAGES ET REGLAGES

■ LW/MW/M.F.

Positionnements des commandes et équipement utilisé

- Générateur de signaux AM et FM (AM et FM- SG)
- Modulateur stéréophonique
- Analyseur de distorsion
- Oscilloscope
- Bobine d'amortissement d'arrêt (100μH)
- Compteur de fréquence
- Condensateur céramique (200pF)
- Voltmètre électronique à C.A. et C.C. (EVM).

Nota: Pour **Z202**, **L303** et **L304**, des éléments réglés sont fournis. Aussi, ne pas tourner les noyaux de ces pièces.

REGLAGE DE A.M.-H.F.

1. Le raccordement de l'équipement d'essai est montré sur l'illustration.
2. Régler l'appareil sur le mode "**MW**".
3. Régler le cadran radio et le générateur de signaux sur **612kHz.**
4. Régler **Z201** (bobine ANT A.M.) pour une sortie maximale.
5. Répéter les étapes 3, 4.

Nota:
Le niveau d'entrée d'antenne doit être aussi bas que possible étant libéré de commande automatique de gain.

REGLAGE DE RE-LW

1. Le raccordement de l'équipement d'essai est montré sur l'illustration.
2. Régler l'appareil sur le mode "**LW**".
3. Régler le réglage de l'affichage de radiofréquence et du générateur de signaux sur **155kHz.**
4. Régler **Z201** (bobine ANT LW) pour une sortie maximale.
5. Répéter les étapes 3, 4.

Nota:
Le niveau d entrée d'antenne doit être aussi bas que possible étant libéré de la commande automatique de gain.

REGLAGE DE DISTORSION MONOPHONIQUE M.F.

1. Le raccordement de l'équipement d'essai est montré sur l'illustration.
2. Régler l'appareil sur le mode "**FM et IF normal**".
3. Régler le réglage de l'affichage de radiofréquence et du générateur de signaux sur **100.10MHz.**
4. Ajuster le noyau de **T101** de telle sorte que la tension mesurée sur le mode de signaux soit de **0mV (0±20 mV)** dans une plage de 300mV.
5. Ajuster **T102** de telle que le facteur de sistorsion du canal de gauche soit minimisé.
6. Répéter les étapes 4 et 5 quelques fois.
7. S'assurer que les facteurs de distorsion du canal de gauche et du canal droite soient sensiblement les mêmes et au minimum.

Nota:
Le tournevis de réglage utilisé devra être fait en résines.

REGLAGE DE SEPARATION

1. Le raccordement de l'équipement d'essai est montré sur l'illustration.
2. Régler l'appareil sur le mode "**FM et IF normal**".
3. Ajuster le réglage de l'affichage de radioféquence et du générateur de signaux sur **100.10 MHz.**
4. Ajuster **VR301** de telle sorte que la sortie de droite soite minimisée lorsque le modulateur stéréo est sur le mode "**G**". (modulation de canal de gauche.)

REGLAGE DU NIVEAU DU SIGNAL FM

1. Le raccordement des appareils de mesure est indiqué sur la figure.
2. Placer l'appareil en mode "**FM et IF normal**".
3. Régler le générateur et le compteur sur **100.10 MHz.**
4. Changer l'indication de l'affichage à cristaux liquides de "fréquence" à "dB" en appuyant sur le bouton FM.
5. Régler **VR101** de manière que l'indication "**54dB**" soit indiquée sur l'affichage.
6. Répéter les opérations 4, 5.

ESPAÑOL

■ MEDICIONES Y AJUSTES

■ LW/MW/FM

Posiciones de control y equipo usado.

- Generador de señales de AM y FM (AM y FM-SG)
- Voltimetro electrónico de CA y CC (EVM)
- Analizador de distorsiones
- Osciloscopio
- Frecuencimetro
- Frecuencimetro
- Bobina de choque (100μH)
- Condensador ceràmico (200pF)

Nota: Para **Z202**, **L303** y **L304**, son suministradas piezas ajustadas. Por lo tanto, no gire los nécleos de estas piezas.

AJUSTE DE MW-RF

1. La conexión del equipo de pruebas se muestra en la figura.
2. Poner la unidad en modalidad de "**MW**".
3. Poner la presentación de la radio y el generador de señales en **612 kHz**.
4. Ajustar **Z201** para salida máxima.
5. Repita los pasos 3. al 4.

Nota:
El nivel de entrada de antena ha de ser lo más bajo posible estando libre de AGC (control automático de ganancia).

AJUSTE DE LO-RF

1. La conexión del equipo de pruebas se muestra en la figura.
2. Poner la unidad en modalidad de "**LW**".
3. Poner la puesta de la presentación de radiofrecuencia y generador de señales en **155 kHz**.
4. Ajustar **Z201** para salida máxima.
5. Repitir los pasos 3. al 4.

Nota:
El nivel de entrada de antena ha de ser lo más bajo posible estando libre de AGC (control automático de ganancia).

AJUSTE DE DISTORSION MONO FM

1. La conexión del equipo de pruebas se muestra en la figura.
2. Poner la unidad en modalidad de "**FM y IF normal**".
3. Poner la puesta da la presentación de radiofrecuencia y generador de señales a **100,10 MHz.**
4. Ajustar el núcleo de **T101** de manera que el voltaje medido en modalidad de señal sea **0mV (0±20 mV)**.
5. Ajustar **T102** de manera que el factor de distorsión de CH-I se minimice.
6. Repetir los pasos 4 y 5 algunas veces.
7. Asegurarse de que los factores de distorsión de CH-I y CH-D sean casi los mismos y los minimos.

Nota:
El destornillador de ajuste usado debe estar hecho de resina.

AJUSTE DE SEPARACION

1. La conexión del equipo pruebas se muestra en la figura.
2. Poner la unidad en modalidad de "**FM y IF normal**".
3. Poner la puesta de la presentación de radiofrecuencia y generador de señales a **100,10MHz.**
4. Ajustar **VR301** de manera que la salida de D quede minimizada cuando el modulador de estéreo esté en la modalidad "I". (modulación de CH-I.)

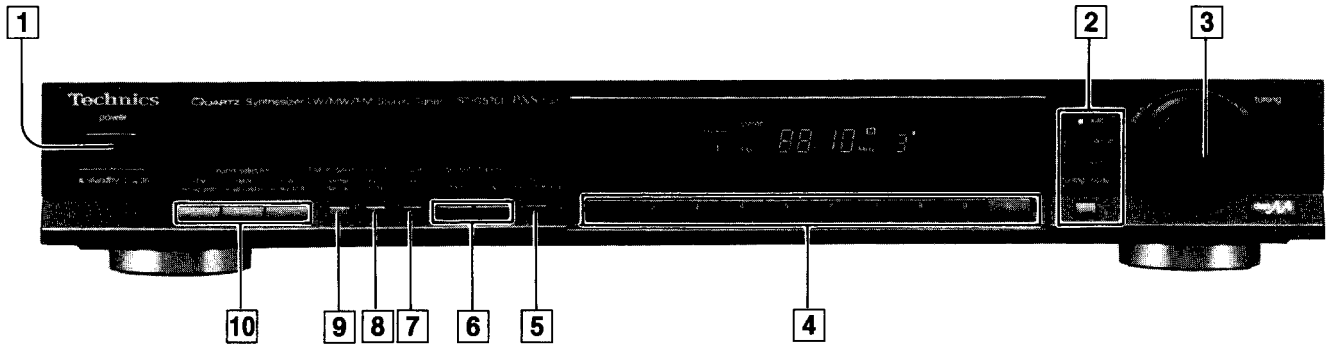
AJUSTE DE LA INTENSIDAD DE LA SEÃL DE FM

1. La conexión del equipo de prueba se muestra en la figura.
2. Ponga la unidad en la modalidad, "**FM y IF normal**".
3. Ponga el visualizador de radiofrecuencia y el generador de señales en **100,10MHz.**
4. Cambie el visualizador de cristal liquido de "frecuencia" a "dB" pulsando el botón de la señal FM.
5. Ajuste **VR101** de modo que se indique **54dB.** En el visualizador de cristal liquido se indica "**54dB**".
6. Repita los pasos: 4, 5.

Printed in Japan
F900402000TW/FF/YY

■ LOCATION OF CONTROLS

Control section



1 Power "standby ⏻ /on" switch (power/■ standby ⏻ ▬ on)

2 Tuning-mode selector/indicator (tuning mode)

3 Tuning control (tuning)

4 Preset-tuning buttons (1 – 0) (39 channel random preset tuning)

5 Memory button (memory)

6 Preset channel buttons (preset channel)

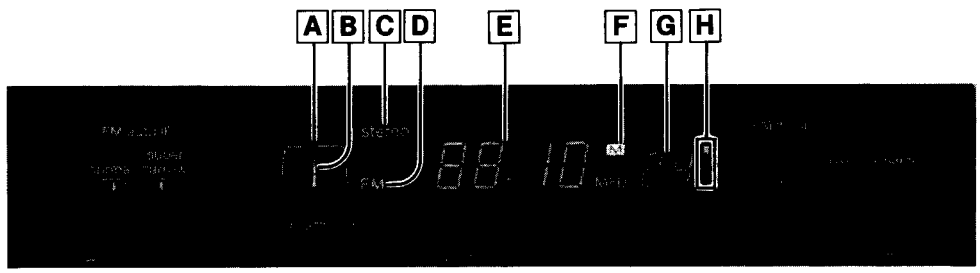
7 FM signal-strength indication button (FM-signal)

8 FM mode selector (FM-mode)

9 FM IF band selector (FM-IF band)

10 Band selectors (band selector)

Display section



A FM IF band indicator (FM auto IF)

B Quartz-lock indicator (|)

C FM stereo indicator (stereo)

D Band indicator (band)

E Digital frequency display

F Memory indicator (M)

G Channel display (channel)

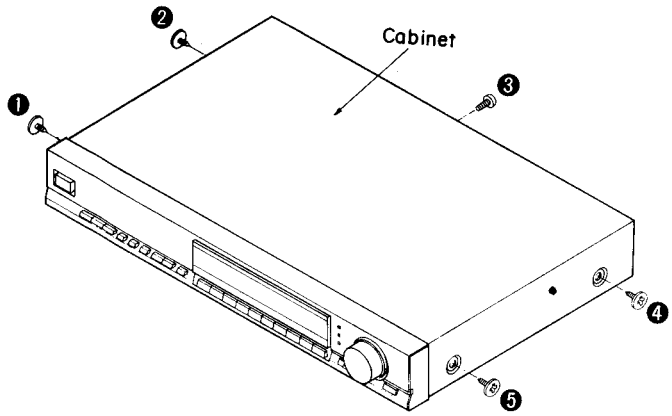
H FM mode indicator (FM mode)

※The operating procedures and features are similar to those for and of the ST-G560L.

■ DISASSEMBLY INSTRUCTIONS

Ref. No. 1 — **Removal of the cabinet**

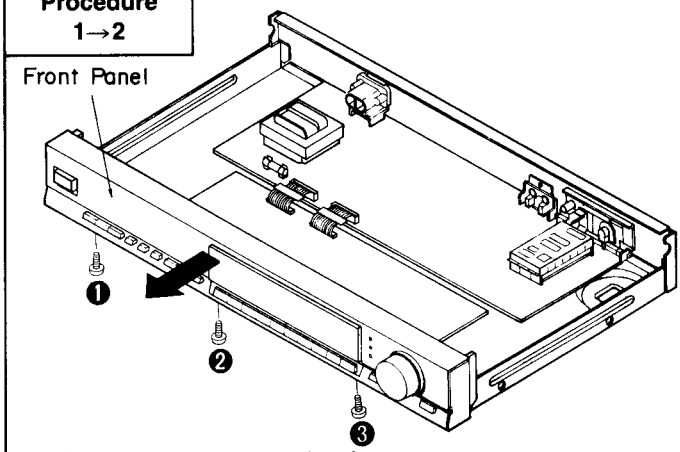
Procedure 1



●Remove the 5 screws (❶~❺).

Ref. No. 2 — **Removal of the front panel**

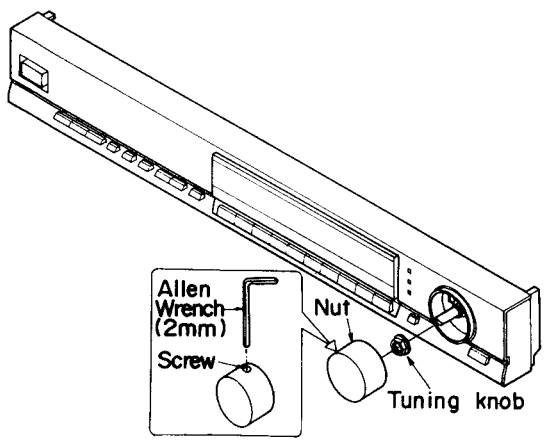
Procedure 1→2

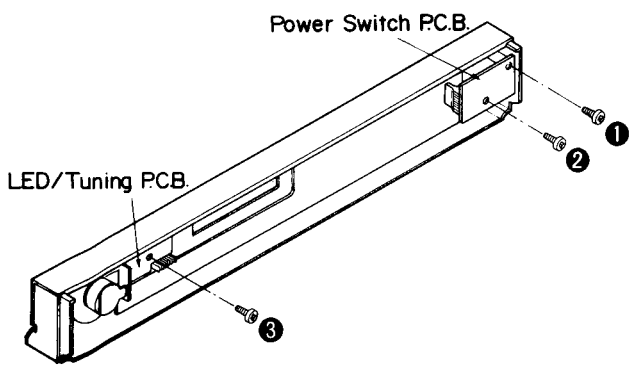


1. Remove the 3 screws (❶~❸).
2. Remove the front panel in the direction of the arrow.

Ref. No. 3 — **Removal of the power switch P.C.B. and LED/Tuning P.C.B.**

Procedure 1→2→3

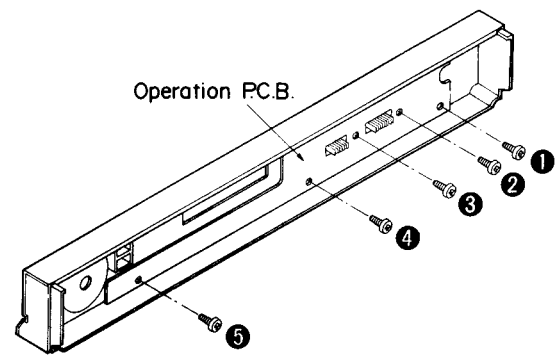




Removal of the power switch P.C.B.
●Remove the 2 screws (❶, ❷).
Removal of the LED/Tuning P.C.B.
1. Remove the tuning knob and nut.
2. Remove the 1 screw (❸).

Ref. No. 4 — **Removal of the operation P.C.B.**

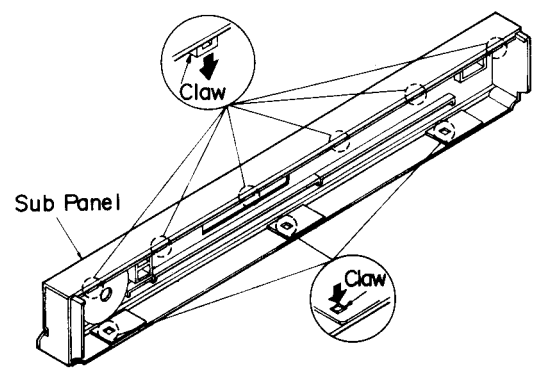
Procedure 1→2→3→4



●Remove the 5 screws (❶~❺).

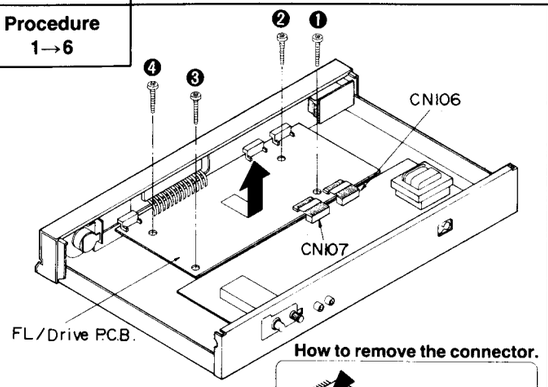
Ref. No. 5 — **Removal of the sub panel**

Procedure 1→2→3→4→5



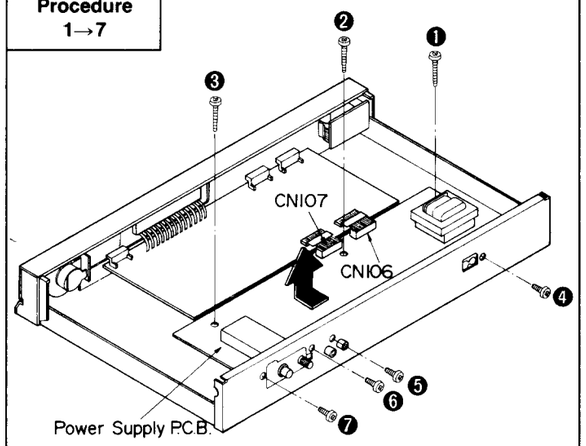
●Remove the 9 claws.

Ref. No. 6	Removal of the FL Drive P.C.B.
Procedure 1→6	



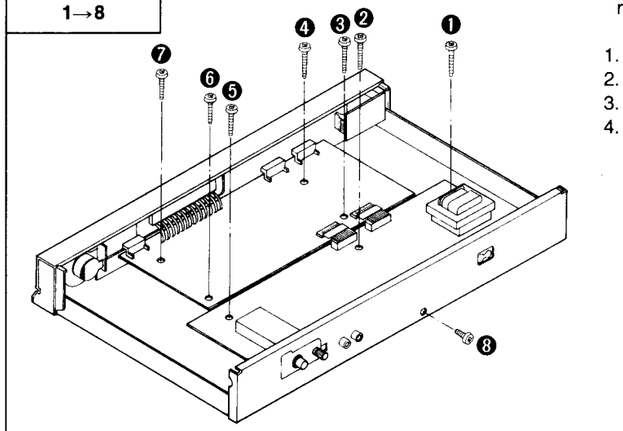
1. Remove the 4 screws (❶~❹).
2. Remove the 2 connectors (CN106, CN107).
3. Remove the FL drive P.C.B. in the direction of the arrow.

Ref. No. 7	Removal of the power supply P.C.B.
Procedure 1→7	



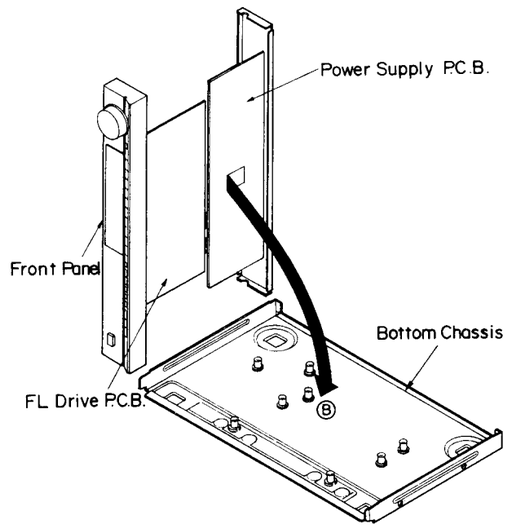
1. Remove the 7 screws (❶~❼).
2. Remove the 2 connectors (CN106, CN107).
3. Remove the power supply P.C.B. in the direction of the arrow.

Ref. No. 8	Checking of the FL drive P.C.B. and power supply P.C.B.
Procedure 1→8	



●When checking the soldered surfaces of main P.C.B. and replacing the parts, do as show.

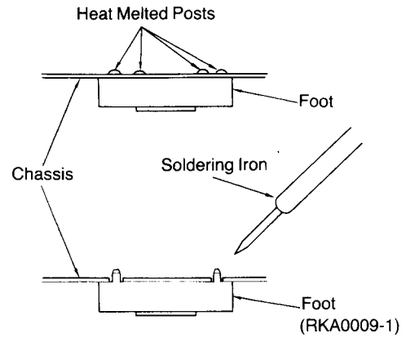
1. Remove the 11 screws (❶~⓫).
2. Pull out the front panel in the direction of the arrow Ⓐ.
3. Remove the bottom chassis in the direction of the arrow Ⓑ.
4. Reinstall the front panel to the FL drive P.C.B.



"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

●Replacement of the Foot.

1. Remove the 4 heat melted posts on the chassis with a pair of nippers or similar tool.
2. To replace the foot (RKA0009-1) on the chassis, melt the 4 posts with a soldering iron.



■ MEASUREMENTS AND ADJUSTMENTS

■ LW/MW/FM

Control positions and equipment used

- AM and FM signal generator(AM and FM-SG)
- Stereo modulator
- Distortion analyser
- Oscilloscope
- Frequency counter
- Choke coil (100μH)
- Ceramic capacitor(200pF)
- AC and DC electronic voltmeter(EVM)

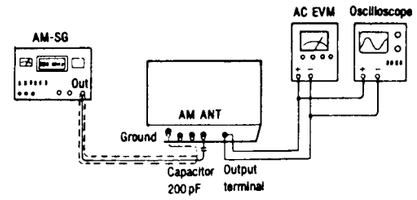
Note: For **Z202**, **L303** and **L304**, they are supplied as adjusted parts. So, do not turn the cores of the parts.

MW-RF ADJUSTMENT

1. **Test equipment connection is shown in figure.**
2. **Set the unit to "MW" mode.**
3. **Set the radio frequency display and signal generator to 612kHz.**
4. Adjust **Z201** (MW ANT coil) for maximum output.
5. Repeat steps 3, 4.

AM SIGNAL GENERATOR CONDITION
Modulation 30%
Modulation frequency 400Hz

Note: Antenna input level must be as low as possible being free from AGC.

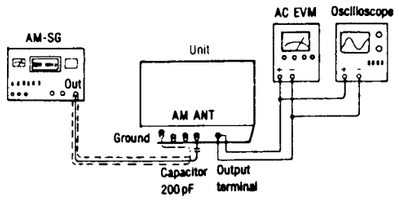


LW-RF ADJUSTMENT

1. Test equipment connection is shown in figure.
2. Set the unit to **"LW"** mode.
3. Set the radio frequency display and signal generator to **155kHz**.
4. Adjust **Z201** (LW ANT coil) for maximum output.
5. Repeat steps 3, 4.

AM SIGNAL GENERATOR CONDITION
Modulation 30%
Modulation frequency 400Hz

Note: Antenna input level must be as low as possible being free from AGC.

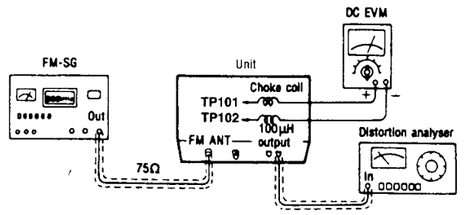


FM MONO DISTORTION ADJUSTMENT

1. Test equipment connection is shown in figure.
2. Set the unit to "**FM and IF normal**" mode.
3. Set the radio frequency display and signal generator to **100.10MHz**.
4. Adjust the core of **T101** so that the voltage measured in signal mode is **0mV(0±20mV)** in 300mV range.
5. Adjust **T102** so that the distortion factor of L-CH is minimized.
6. Repeat steps 4 and 5.
7. Make sure that the distortion factors of L-CH and R-CH are nearly the same and minimum.

Note: The adjusting screwdriver used should be made of resin.

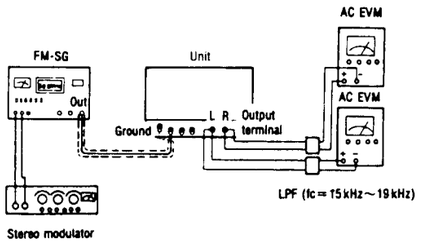
FM SIGNAL GENERATOR CONDITION
Modulation 100%
Modulation frequency 1kHz
Output level 66dB



SEPARATION ADJUSTMENT

1. Test equipment connection is shown in figure.
2. Set the unit to "**FM and IF normal**" mode.
3. Set the radio frequency display and signal generator to **100.10MHz**.
4. Adjust **VR301** so that the R-CH output is minimized when stereo modulator is in "L"(L-CH modulation) mode.

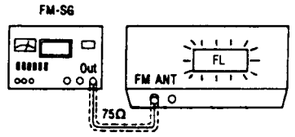
FM SIGNAL GENERATOR CONDITION
Modulation.....Stereo "L" mode or "R" mode 45%, Pilot 10%
Modulation frequency .....1kHz(Pilot 19kHz)
Output level 66dB



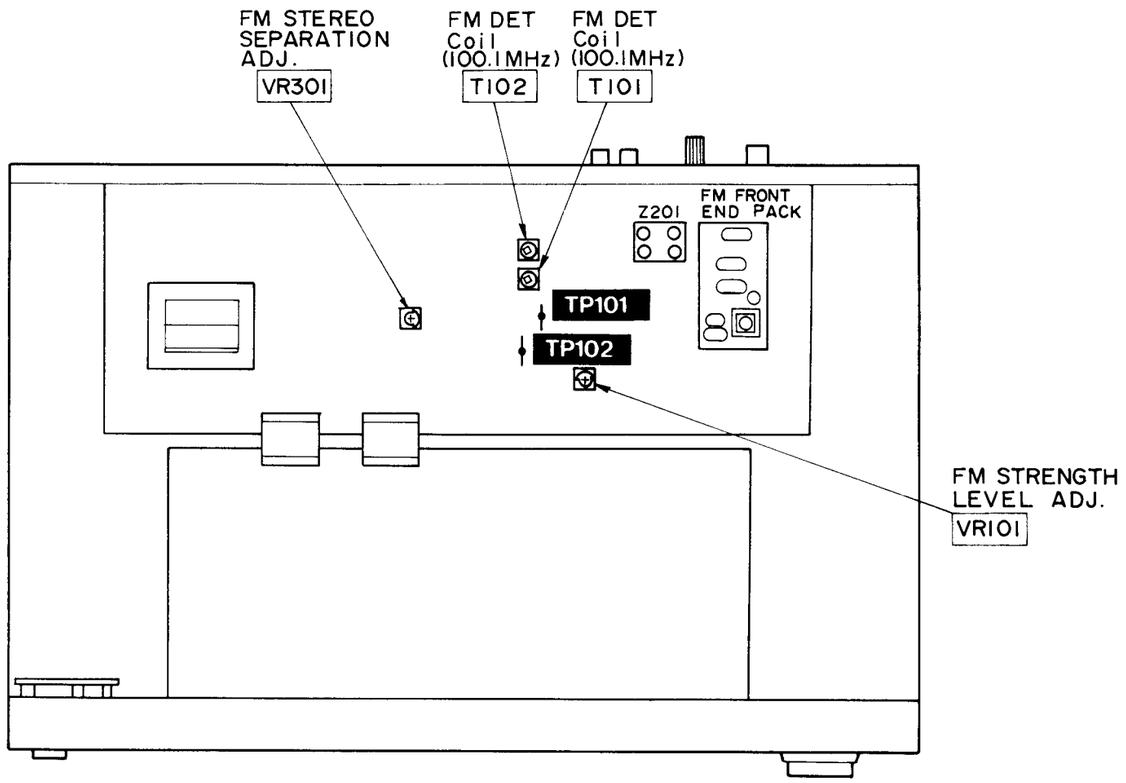
FM SIGNAL STRENGTH LEVEL ADJUSTMENT

1. Test equipment connection is shown in figure.
2. Set the unit to "**FM and IF normal**" mode.
3. Set the radio frequency display and signal generator to **100.10MHz**.
4. Change FL display from "frequency" to "dB" by pressing the FM signal button.
5. Adjust **VR101** so that **54dB** is indicated. "**54dB**" is indicated on the FL display.
6. Repeat steps 4, 5.

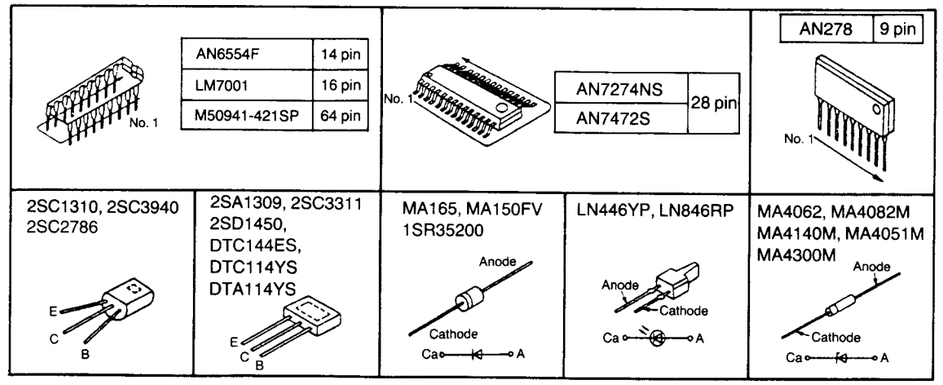
FM SIGNAL GENERATOR CONDITION
Modulation 30%
Modulation frequency.....1kHz
Output level.....66 dB



•Adjustment points.



■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES



1 2 3 4 5 6 7 8 9 10

A B C D E F

A MAIN CIRCUIT

FM signal

FM ANT (75Ω)

ANI01-1

AM signal

AM ANT

ANI01-2

AM LOOP ANT

L201 0.22μH

L202 0.22μH

Z001 FM FRONT END (SNVFE407G29)

2SK193L
FM RF AMP

2SC2668R
FM MIXER

2SK241GR

2SC2669O
FM OSC

2SC29950

FM osc

AM osc

Q251
2SA1309AQSTA
LW/MW SWITCHING

Q252
2SD1450RSTTA
LW/MW SWITCHING

Q253
2SC3311AQSTA
LW/MW SWITCHING

Q254
2SC3311AQSTA
LW/MW SWITCHING

Q255
DTA114YSTP
LW/MW SWITCHING

Q903
2SA1309AQSTA
FM LOOP FILTER

Q901, 902
2SC1310EFGTA
FM LOOP FILTER

Q951, 952
2SC3311AQSTA
LW/MW LOOP FILTER

IC901
LM7001
PLL FREQUENCY SYNTHESIZER

Q101
2SC2786MTA
BUFFER AMP

Q102, 103
2SA1309AQSTA
IF BAND SELECTOR

Q104
2SC3311AQSTA
IF BAND SELECTOR

IC101
AN278
IF AMP

Q905
2SC3311AQSTA
MUTING

IF super narrow signal

B LED CIRCUIT

D917 LN446YP-C (auto ind.)

D916 LN446YP-C (manual ind.)

D915 LN846RP-C (lock ind.)

Q907~909
DTC114YSTP
LED DRIVE

C TUNING VR CIRCUIT

VR901 TUNING

D SYSTEM CONTROL CIRCUIT

Q906
2SC3311AQSTA
LED DRIVE

IC902
M50941-421SP
MICRO COMPUTER

Q904
DTC144ESTP
POWER DET.

FL DISPLAY
FL1(SAD6MT117GK)

D907 MA150FV(IF1)
D908 MA150FV(IF0)

D902, D906, D903 MA165TA

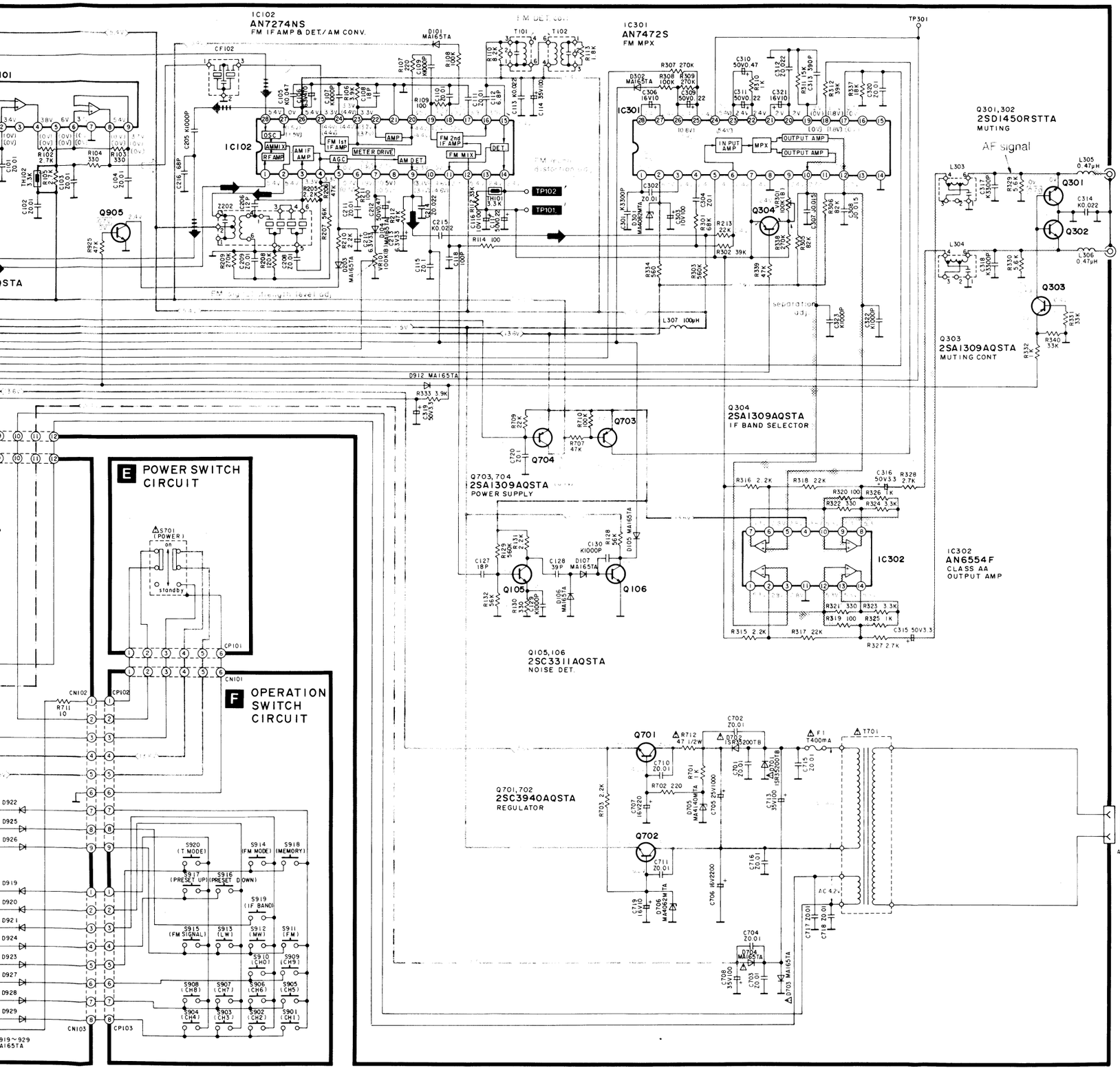
D919~929 MA165TA

E POWER S CIRCUIT

S701 (POWER) on standby

CN101 CN102 CN103 CN104 CN105 CN106 CN107

CP101 CP102 CP103 CP104 CP105 CP106 CP107



■ SCHEMATIC DIAGRAM (Parts list on page 19~21)

(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

- **S701:** Power switch in **"on"** position.
- **S901~S910:** Preset tuning **(39 channel random preset tuning)** switches.
  S901: CH1, S902: CH2, S903: CH3, S904: CH4, S905: CH5, S906: CH6, S907: CH7, S908: CH8, S909: CH9, S910: CH0
- **S911~S913:** Band selectors **(band selector)** switches.
  S911: FM, S912: MW, S913: LW
- **S914:** FM mode selector **(FM-mode)** switch.
- **S915:** FM signal-strength indication **(FM-signal)** switch.
- **S916, S917:** Preset channel **(preset channel)** switches.
  S916: DOWN, S917: UP
- **S918:** Memory **(memory)** switch.
- **S919:** FM IF band selector **(FM-IF band)** switch.
- **S920:** Tuning mode selector **(tuning mode)** switch.

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

- ( ): MW voltage [ ]: LW voltage
  _ _ _ : muting voltage
- ——— Positive voltage lines (+)
  - - - - - Negative voltage lines (−)

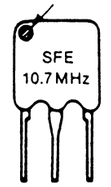
- □□□▷ FM OSC
  ■■■■▶ AM OSC
  ⟹ IF super narrow signal
  ⋯⋯ AF signal lines
  ⇨ FM signal
  ➡ AM signal

- Important safety notice
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

• Use of ceramic filters in pairs

The ceramic filters (CF101~CF104) for FM-IF circuit are available in three ranks. For this circuit, be sure to use the ceramics of the same rank in a pair. At repairing and replacement, pay close attention to the diodes (D907, D908) for use as different diodes must be used depending on each rank of the ceramic filters.

Color marking
(Red, Blue or Orange)



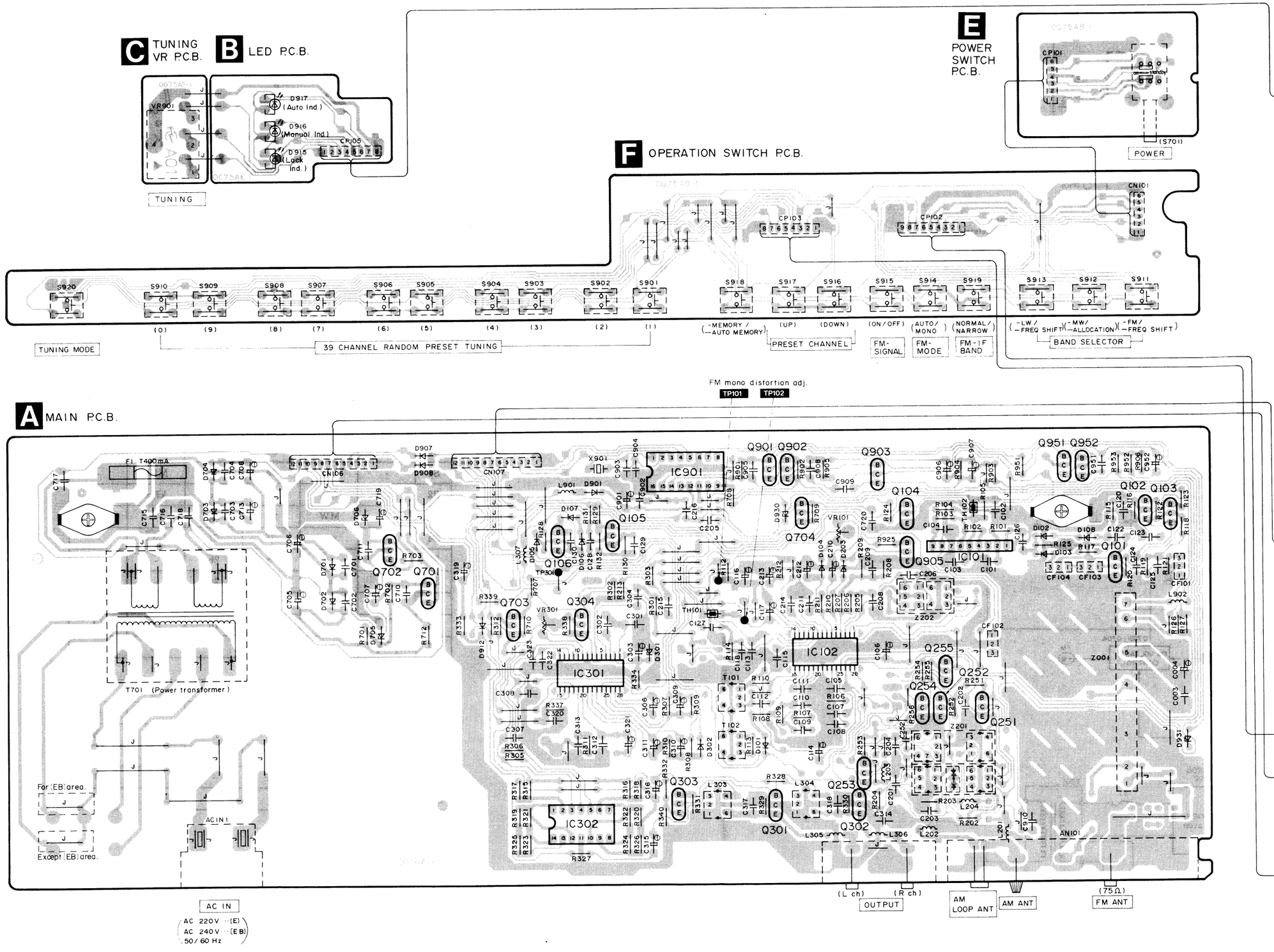
RANK (Color)	D907	D908	CENTER FREQUENCY
Orange	○	○	10.72 MHz
Red	×	×	10.70 MHz
Blue	×	○	10.67 MHz

Note: ○ mark: Diode is used.
× mark: Diode is not used.

• Caution!

IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
- Cover the parts boxes made of plastics with aluminum coil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers directly.

■ CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM (Parts list on pages 19~21)

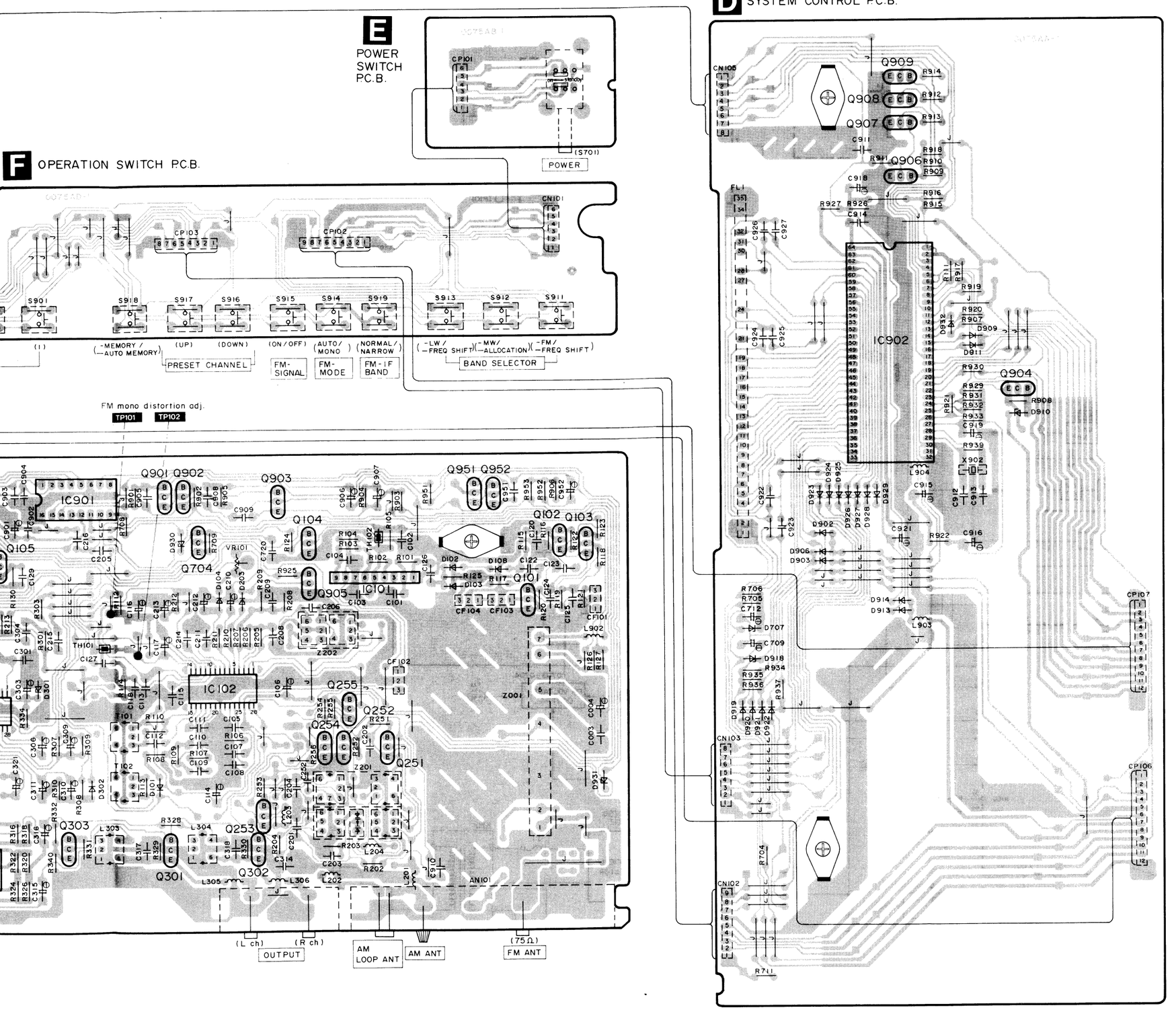


(arts list on pages 19~21)

E POWER SWITCH P.C.B.

F OPERATION SWITCH P.C.B.

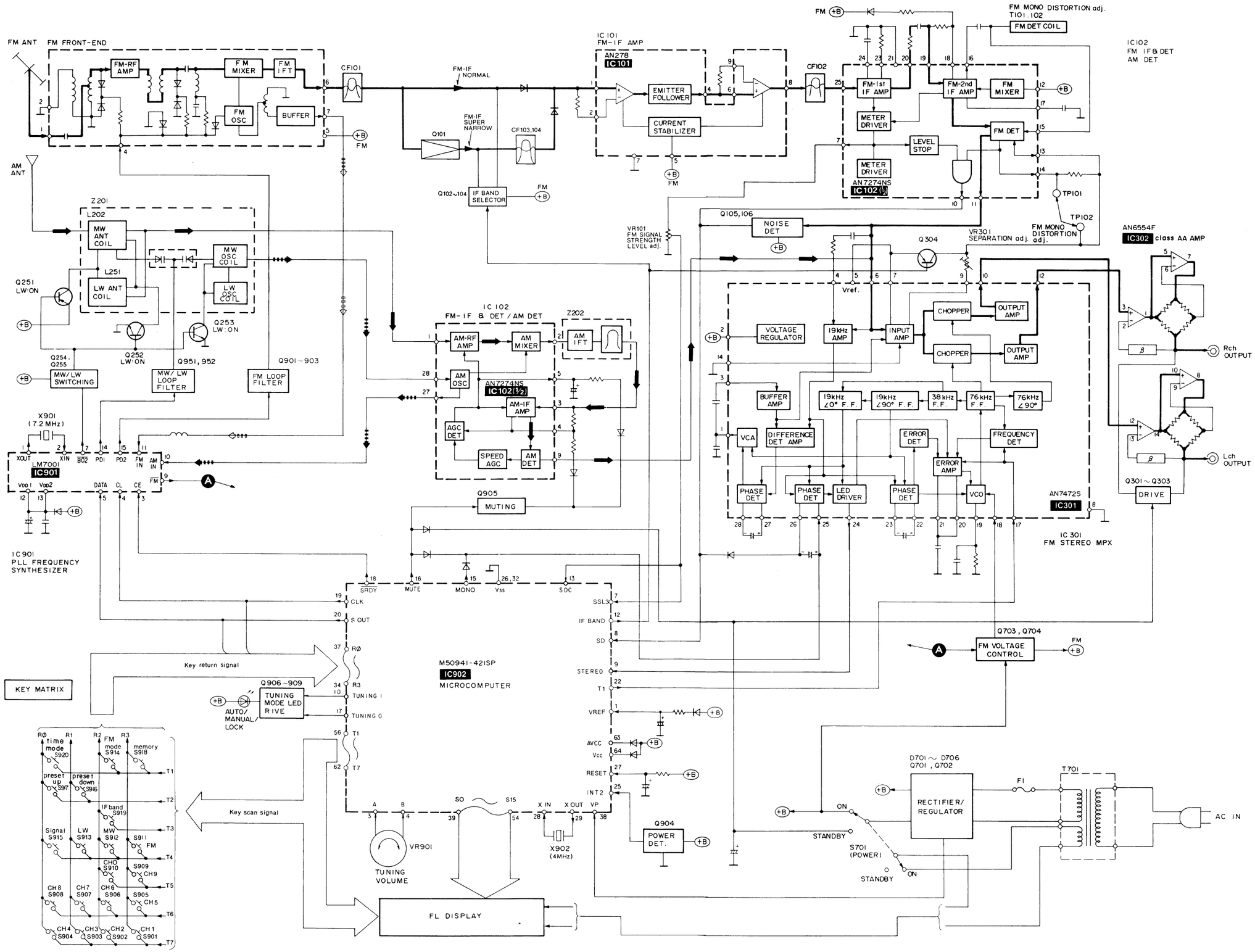
D SYSTEM CONTROL P.C.B.



■ FUNCTIONS OF IC TERMINALS (IC902: M50941-421SP)

PIN NO.	IN/OUT	MARK	DESCRIPTION OF TERMINAL
1	INPUT	VREF	Reference voltage terminal.
2	——	NC	Not used in this unit.
3	——	A	Not used in this unit, connected to GND.
4		B	
5 • 6	——	SSL1 • SSL2	
7	INPUT	SSL3	FM signal level detector terminal.
8	INPUT	SD	Station detection of auto tuning terminal. • Received: "H", No signal: "L"
9	INPUT	STEREO	Reference voltage terminal.
10 • 17	——	TUNING 0 • TUNING 1	Not used in this unit.
11	——	RF BAND	Not used in this unit.
12	OUTPUT	IF BAND	FM IF BAND selector terminal. • "normal": "L", "super narrow": "H"
13	——	NC	Not used in this unit.
14	——	REC	Not used in this unit.
15	OUTPUT	MONO	Forcible monaural selection terminal. 4.8V / 0 Forcible monaural mode
16	OUTPUT	MUTE	Terminal to eliminate shock noise due to unlocking at PLL. 〈Muting output〉 • Pin 25 (CE) is "L"→"H" or "H"→"L" • Power switch "off". • Frequency change. (up/down, FM↔AM (MW/LW), REC). • FM RF/IF selection.
18	OUTPUT	$\overline{SRDY}$	PLL data output terminal. $\overline{SRDY}$: serial I/O enable signal, CLK: clock signal, SOUT: serial data signal.
19		CLK	
20		SOUT	
21	INPUT	SIN	Control input terminal.
22	OUTPUT	T1	Clock pulse waveform output terminal. • FM: 1kHz signal (duty 50%)
23	——	T2	Not used in this unit.
24	INPUT	$\overline{INT1}$	Remote control input terminal. Not used in this unit.
25	INPUT	$\overline{INT2}$	Power supply detection terminal.
26 • 32	——	Vss	Ground terminal.
27	INPUT	RESET	Reset signal terminal.
28	INPUT	XIN	Connecting terminal for crystal oscillator.
29	OUTPUT	XOUT	
30	——	XCIN	Not used in this unit, connected to GND.
31	——	XCOUT	Not used in this unit.
33	——	NC	
34 ~ 37	INPUT	R0 ~ R3	Terminal for key return signal to external key matrix. 3.6V / 0 1V/2msec. div.
38	INPUT	VP	Power supply terminal for FL display.
39 ~ 54	OUTPUT	S0 ~ S15	Segment signal terminal for FL display. 5V / 0V / -26.0V 10V/5msec. div.
55	——	NC	Not used in this unit.
56 ~ 62	OUTPUT	T1 ~ T7	Terminal for key scan signal to external key matrix and grid signal terminal for FL display. 5V / 0V / -26.0V 10V/2msec. div.
63	INPUT	AVcc	Power supply terminal of device.
64	INPUT	Vcc	

■ BLOCK DIAGRAM



ST-G570L

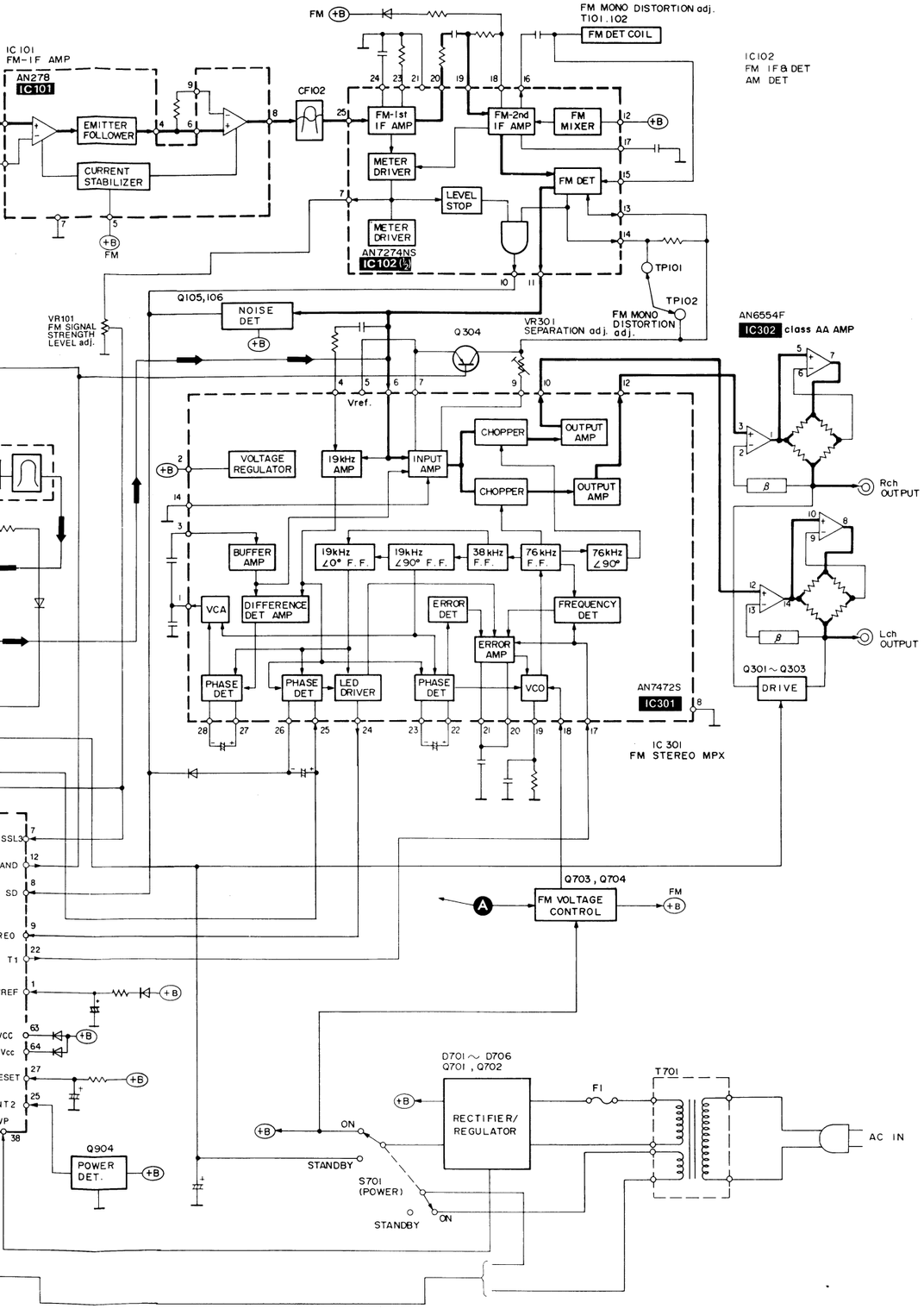
■ DES

• GRID A

• PIN CO

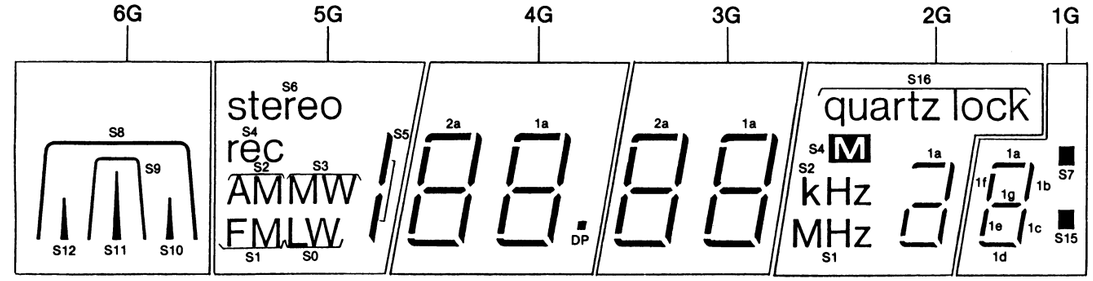
P
CON

• ANODE



■ DESCRIPTION OF FL PANEL [FL1 (SAD6MT117GK)]

• GRID ASSIGNMENT



• PIN CONNECTION

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
CONNECTION	F1	F1	NP	S8	S9	6G	S10	S11	S12	S13	5G	S14	S15	4G	S0	S1	S2	S3	S4	NP	3G	NP	NP	S5	NP	NP	S6	2G	NP	S16	S7	1G	NP	F2	F2

• ANODE CONNECTION

	6G	5G	4G	3G	2G	1G
S0	-	LW	2d	2d	-	-
S1	-	FM	2e	2e	MHz	-
S2	-	AM	2c	2c	kHz	-
S3	-	MW	2g	2g	-	-
S4	-	rec	2f	2f	M	-
S5	-	/	2b	2b	-	-
S6	-	stereo	2a	2a	-	-
S7	-	-	-	-	-	■
S8	⌜⌝	-	1d	1d	1d	1d
S9	⌜	-	1e	1e	1e	1e
S10	|	-	1c	1c	1c	1c
S11	|	-	1g	1g	1g	1g
S12	|	-	1f	1f	-	1f
S13	-	-	1b	1b	1b	1b
S14	-	-	1a	1a	1a	1a
S15	-	-	DP	-	-	■
S16	-	-	-	-	quartz lock	-

■ REPLACEMENT PARTS LIST

Notes: *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
*"K" mark parts are used for black type only.
*"S" mark parts are used for silver type only.
Parts other than "K" and "S" marked are used for all color types.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC101	AN278	IC, BUFFER AMP.	
IC102	AN7274NS	IC, FM IF AMP.	
IC301	AN7472S	IC, FM MPX.	
IC302	AN6554F	IC, CLASS AA OUTPUT AMP.	
IC901	LM7001	IC, PLL FREQUENCY SYNTHE	
IC902	M50941-421SP	IC, MICRO COMPUTER	
		TRANSISTOR(S)	
Q101	2SC2786MTA	TRANSISTOR	
Q102, 103	2SA1309AQSTA	TRANSISTOR	
Q104-106	2SC3311AQSTA	TRANSISTOR	
Q251	2SA1309AQSTA	TRANSISTOR	
Q252	2SD1450RSTTA	TRANSISTOR	
Q253, 254	2SC3311AQSTA	TRANSISTOR	
Q255	DTA114YSTP	TRANSISTOR	
Q301, 302	2SD1450RSTTA	TRANSISTOR	
Q303, 304	2SA1309AQSTA	TRANSISTOR	
Q701, 702	2SC3940AQSTA	TRANSISTOR	
Q703, 704	2SA1309AQSTA	TRANSISTOR	
Q901, 902	2SC1310EFGTA	TRANSISTOR	
Q903	2SA1309AQSTA	TRANSISTOR	
Q904	DTC144ESTP	TRANSISTOR	
Q905, 906	2SC3311AQSTA	TRANSISTOR	
Q907-909	DTC114YSTP	TRANSISTOR	
Q951, 952	2SC3311AQSTA	TRANSISTOR	
		DIODE(S)	
D101-108	MA165TA	DIODE	
D203	MA165TA	DIODE	
D301	MA4082MTA	DIODE	
D302	MA165TA	DIODE	
D701, 702	1SR35200TB	DIODE	⚠
D703, 704	MA165TA	DIODE	⚠
D705	MA4140MTA	DIODE	
D706	MA4062MTA	DIODE	
D707	MA4051MTA	DIODE	
D901-903	MA165TA	DIODE	
D906	MA165TA	DIODE	
D907, 908	MA150FV	DIODE	
D909	MA165TA	DIODE	
D910	MA4082MTA	DIODE	
D911-914	MA165TA	DIODE	
D915	LN846RP-C	L. E. D	
D916, 917	LN446YP-C	L. E. D	
D918	MA4300MTA	DIODE	
D919-929	MA165TA	DIODE	
D930, 931	MA4062MTA	DIODE	
D932	MA165TA	DIODE	
		VARIABLE RESISTOR(S)	
VR101	EVNDXAA00B15	V. R, STRENGTH LEVEL ADJ.	
VR301	EVNDXAA00B15	V. R, STEREO SEPARATION ADJ.	
VR901	EVQWX922512B	V. R, TUNING CONTROL	
		THERMISTOR(S)	
TH101, 102	ERTD2ZHL332T	THERMISTOR	
		COMPONENT COMBINATION(S)	
Z001	SNVFE407G29	COMPONENT COMBINATION	
Z201	SLA6Z1-T	COMPONENT COMBINATION	
Z202	RLI2Z002-W	COMPONENT COMBINATION	
		COIL(S)	
L201, 202	ELEPKR22MA	COIL	
L203	RLQZP1R5KT-Y	COIL	
L204	RLQZP101KT-Y	COIL	
L303, 304	RLM2B003-K	COIL	
L305, 306	RLQZPR47KT-Y	COIL	
L307	RLQZP101KT-Y	COIL	
L901	RLQZP101KT-Y	COIL	
L902	RLQZPR47KT-Y	COIL	
L903	RLQZP101KT-Y	COIL	
L904	RLQZPR47KT-Y	COIL	
		FILTER(S)	
CF101	SVFE107MZ2-A	CERAMIC FILTER	(RED)
CF101	SVFE107MZ2-B	CERAMIC FILTER	(BLUE)
CF101	SVFE107MZ2-C	CERAMIC FILTER	(ORANGE)
CF102	SVFE107MX2-A	CERAMIC FILTER	(RED)
CF102	SVFE107MX2-B	CERAMIC FILTER	(BLUE)
CF102	SVFE107MX2-C	CERAMIC FILTER	(ORANGE)
CF103	SVFE107MZ2-A	CERAMIC FILTER	(RED)
CF103	SVFE107MZ2-B	CERAMIC FILTER	(BLUE)
CF103	SVFE107MZ2-C	CERAMIC FILTER	(ORANGE)
CF104	SVFE107MZ2-A	CERAMIC FILTER	(RED)
CF104	SVFE107MZ2-B	CERAMIC FILTER	(BLUE)
CF104	SVFE107MZ2-C	CERAMIC FILTER	(ORANGE)
		TRANSFORMER(S)	
T101	RLI4B005-Z	TRANSFORMER	
T102	RLI4B006-Z	TRANSFORMER	
T701	SLT5K264-K	POWER TRANSFORMER	⚠
		OSCILLATOR(S)	
X901	SVQ49U722T-S	OSCILLATOR	
X902	SVQ49U402T-S	OSCILLATOR	
		SWITCH(ES)	
S701	SSH1218	POWER SWITCH	⚠
S901-920	EVQQB005R	PUSH SWITCHES	
		DISPLAY	
FL1	SAD6MT117GK	DISPLAY TUBE	
		FUSE	
F1	XBA2C04TB0	FUSE 250V T0.4A	⚠
		JACK(S)	
ACIN1	SJS9236	AC INLET	⚠
AN101	SJF8305N	TERMINAL BOARD, ANT	
CN101	SJS50681BB	SOCKET(6P)	
CN102	RJU003K009M1	SOCKET(9P)	
CN103	RJU003K008M1	SOCKET(8P)	
CN105	RJU003K008M1	SOCKET(8P)	
CN106, 107	RJU005W012	SOCKET(12P)	
CP101	SJT30648BB	CONNECTOR(6P)	
CP102	RJT003K009M1	CONNECTOR(9P)	
CP103	RJT003K008M1	CONNECTOR(8P)	
CP105	RJT003K008M1	CONNECTOR(8P)	
CP106, 107	RJT005W012	CONNECTOR(12P)	

Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF) F=Farads(F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R101	ERDS2TJ102T	1/4W 1K
R102	ERDS2TJ272T	1/4W 2.7K
R103, 104	ERDS2TJ331T	1/4W 330
R105	ERDS2TJ272T	1/4W 2.7K
R106	ERDS2TJ392T	1/4W 3.9K
R107	ERDS2TJ221T	1/4W 220
R108	ERDS2TJ104T	1/4W 100K
R109	ERDS2TJ101T	1/4W 100
R110	ERDS2TJ822T	1/4W 8.2K
R111	ERDS2TJ684T	1/4W 680K
R112	ERDS2TJ333T	1/4W 33K
R113	ERDS2TJ182T	1/4W 1.8K
R114	ERDS2TJ101T	1/4W 100
R115	ERDS2TJ682T	1/4W 6.8K
R116	ERDS2TJ103T	1/4W 10K
R117	ERDS2TJ682T	1/4W 6.8K
R118	ERDS2TJ472T	1/4W 4.7K
R119	ERDS2TJ102T	1/4W 1K
R120	ERDS2TJ331T	1/4W 330
R121	ERDS2TJ102T	1/4W 1K
R122	ERDS2TJ104T	1/4W 100K
R123, 124	ERDS2TJ473T	1/4W 47K
R125	ERDS2TJ332T	1/4W 3.3K
R126, 127	ERDS2TJ101T	1/4W 100
R128	ERDS2TJ563T	1/4W 56K
R129	ERDS2TJ564T	1/4W 560K
R130	ERDS2TJ331T	1/4W 330
R131	ERDS2TJ222T	1/4W 2.2K
R132	ERDS2TJ563T	1/4W 56K
R202	ERDS2TJ822T	1/4W 8.2K
R203	ERDS2TJ104T	1/4W 100K
R204	ERDS2TJ122T	1/4W 1.2K
R205	ERDS2TJ222T	1/4W 2.2K
R206	ERDS2TJ473T	1/4W 47K
R207	ERDS2TJ563T	1/4W 56K
R208	ERDS2TJ124T	1/4W 120K
R209	ERDS2TJ274T	1/4W 270K
R210	ERDS2TJ222T	1/4W 2.2K
R211	ERDS2TJ101T	1/4W 100
R212	ERDS2TJ473T	1/4W 47K
R213	ERDS2TJ223T	1/4W 22K
R251	ERDS2TJ472T	1/4W 4.7K
R252	ERDS2TJ103T	1/4W 10K
R253	ERDS2TJ223T	1/4W 22K
R254	ERDS2TJ822T	1/4W 8.2K
R255	ERDS2TJ473T	1/4W 47K
R256	ERDS2TJ681T	1/4W 680
R301	ERDS2TJ683T	1/4W 68K
R302	ERDS2TJ393T	1/4W 39K
R303	ERDS2TJ564T	1/4W 560K
R305, 306	ERDS2TJ823T	1/4W 82K
R307	ERDS2TJ274T	1/4W 270K
R308	ERDS2TJ104T	1/4W 100K
R309	ERDS2TJ274T	1/4W 270K
R310	ERDS2TJ102T	1/4W 1K
R311	ERDS2TKF1502	1/4W 15K
R312	ERDS2TJ393T	1/4W 39K
R315, 316	ERDS2TJ222T	1/4W 2.2K
R317, 318	ERDS2TJ223T	1/4W 22K
R319, 320	ERDS2TJ101T	1/4W 100
R321, 322	ERDS2TJ331T	1/4W 330
R323, 324	ERDS2TJ332T	1/4W 3.3K
R325, 326	ERDS2TJ102T	1/4W 1K

Ref. No.	Part No.	Values & Remarks
R327, 328	ERDS2TJ272T	1/4W 2.7K
R329, 330	ERDS2TJ562T	1/4W 5.6K
R331	ERDS2TJ333T	1/4W 33K
R332	ERDS2TJ102T	1/4W 1K
R333	ERDS2TJ392T	1/4W 3.9K
R334	ERDS2TJ561T	1/4W 560
R337	ERDS2TJ183T	1/4W 18K
R338	ERDS2TJ274T	1/4W 270K
R339	ERDS2TJ473T	1/4W 47K
R340	ERDS2TJ333T	1/4W 33K
R701	ERDS2TJ102T	1/4W 1K
R702	ERDS2TJ221T	1/4W 220
R703	ERDS2TJ222T	1/4W 2.2K
R704-706	ERDS2TJ101T	1/4W 100
R707	ERDS2TJ473T	1/4W 47K
R708	ERDS2TJ103T	1/4W 10K
R709	ERDS2TJ223T	1/4W 22K
R710	ERDS2TJ104T	1/4W 100K
R711	ERDS2TJ100T	1/4W 10
R712	ERDS1FVJ470T	1/2W 47 ⚠
R901	ERDS2TJ102T	1/4W 1K
R902	ERDS2TJ273T	1/4W 27K
R903	ERDS2TJ682T	1/4W 6.8K
R904	ERDS2TJ561T	1/4W 560
R905	ERDS2TJ123T	1/4W 12K
R906	ERDS2TJ102T	1/4W 1K
R907	ERDS2TJ333T	1/4W 33K
R908	ERDS2TJ392T	1/4W 3.9K
R909, 910	ERDS2TJ473T	1/4W 47K
R911	ERDS2TJ153T	1/4W 15K
R912	ERDS2TJ471T	1/4W 470
R913, 914	ERDS2TJ151T	1/4W 150
R915-917	ERDS2TJ104T	1/4W 100K
R918	ERDS2TJ274T	1/4W 270K
R919-921	ERDS2TJ105T	1/4W 1M
R922	ERDS2TJ681T	1/4W 680
R925	ERDS2TJ473T	1/4W 47K
R926	ERDS2TJ123T	1/4W 12K
R927	ERDS2TJ102T	1/4W 1K
R929	ERDS2TJ103T	1/4W 10K
R930	ERDS2TJ393T	1/4W 39K
R931, 932	ERDS2TJ103T	1/4W 10K
R933-937	ERDS2TJ104T	1/4W 100K
R939	ERDS2TJ105T	1/4W 1M
R951	ERDS2TJ102T	1/4W 1K
R952	ERDS2TJ472T	1/4W 4.7K
R953	ERDS2TJ123T	1/4W 12K
		CAPACITORS
C003	ECKR1H103ZF5	50V 0.01U
C004	ECEA1CK100B	16V 10U

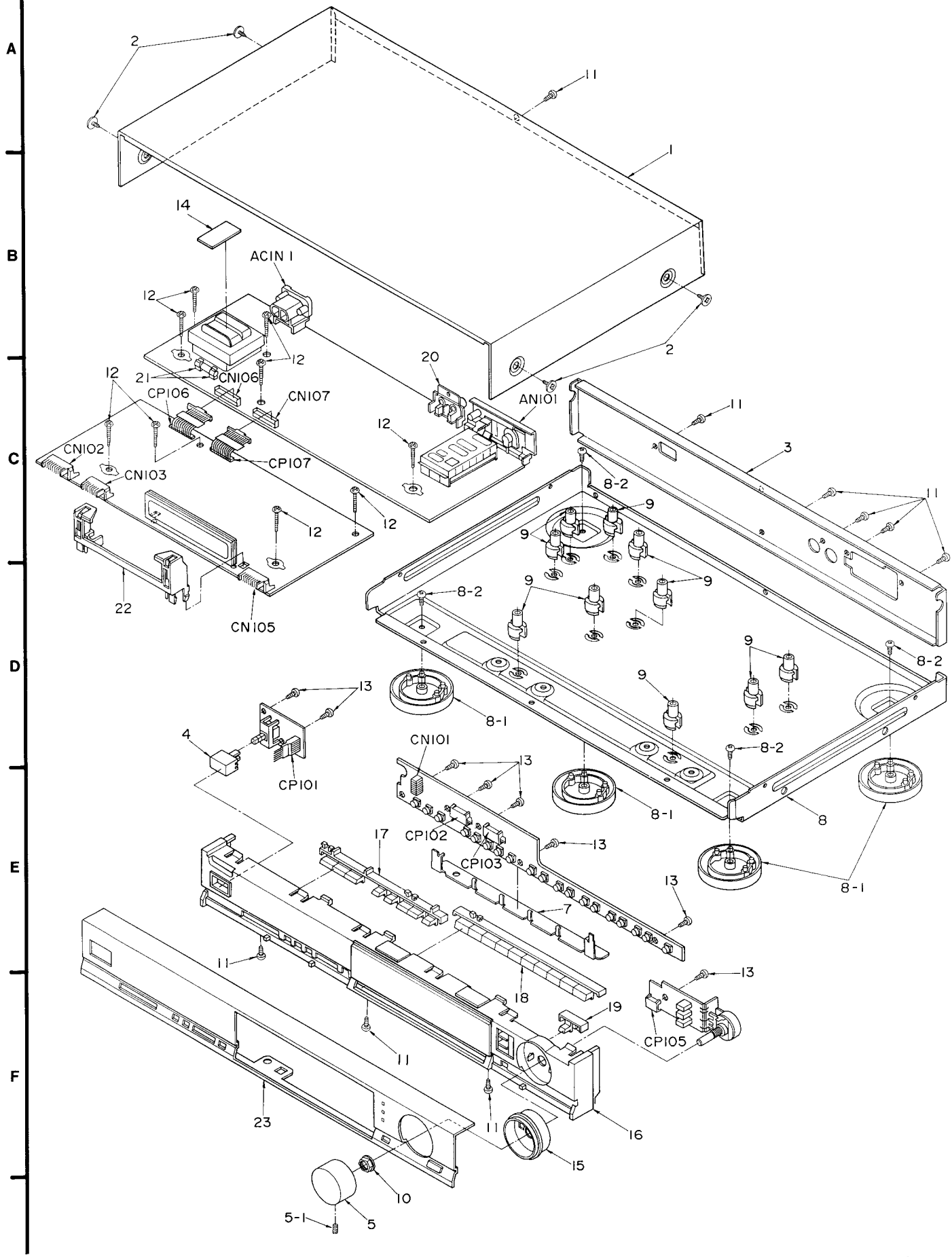
Ref. No.	Part No.	Values & Remarks
C101-104	ECKR1H103ZF5	50V 0.01U
C105	ECQM1H473KV3	50V 0.047U
C106	ECEA0JU471B	6.3V 470U
C107	ECQM1H102KV3	50V 1000P
C108	ECBT1H180JC5	50V 18P
C109	ECBT1H102KB5	50V 1000P
C110, 111	ECKR1H103ZF5	50V 0.01U
C112	ECBT1H6R8KC5	50V 6.8P
C113	ECQM1H223KV3	50V 0.022U
C114	ECEA1VU101B	35V 100U
C115	ECFR1E104ZF5	25V 0.1U
C116	ECEA1AU101B	10V 100U
C117	ECEA1HKR22B	50V 0.22U
C118	ECBT1H101KB5	50V 100P
C120	ECFR1E104ZF5	25V 0.1U
C122-126	ECKR1H103ZF5	50V 0.01U
C127	ECBT1H180JC5	50V 18P
C128	ECBT1H390J5	50V 39P
C129, 130	ECBT1H102KB5	50V 1000P
C201	ECKR1H473ZF5	50V 0.047U
C202	ECKR1H223ZF5	50V 0.022U
C203	ECBT1H4R7KC5	50V 4.7P
C204	ECKR1H223ZF5	50V 0.022U
C205	ECBT1H102KB5	50V 1000P
C206	ECBT1H120JC5	50V 12P
C208, 209	ECKR1H103ZF5	50V 0.01U
C210	ECEA0JK330B	6.3V 33U
C211	ECKR1H103ZF5	50V 0.01U
C212	ECEA1HKR47B	50V 0.47U
C213	ECEA0JK330B	6.3V 33U
C214	ECKR1H223ZF5	50V 0.022U
C215	ECFR1E223KR	25V 0.022U
C216	ECBT1H680J5	50V 68P
C252	ECBT1H100JC5	50V 10P
C301	ECFR1E332KR	25V 3300P
C302	ECKR1H103ZF5	50V 0.01U
C303	ECEA1AU101B	10V 100U
C304	ECFR1E104ZF5	25V 0.1U
C306	ECEA1CK100B	16V 10U
C307, 308	ECQB1H153JZ3	50V 0.015U
C309	ECEA1HKR22B	50V 0.22U
C310	ECEA1HKR47B	50V 0.47U
C311	ECEA1HKR22B	50V 0.22U
C312	ECKR1H223ZF5	50V 0.022U
C313	ECQP2A391GZT	100V 390P
C314	ECQM1H223KV3	50V 0.022U
C315, 316	ECEA1HPX3R3B	50V 3.3U
C317, 318	ECFR1E332KR	25V 3300P
C319	ECEA1HPX3R3B	50V 3.3U
C320	ECKR1H103ZF5	50V 0.01U
C321	ECEA1CK100B	16V 10U
C322, 323	ECBT1H102KB5	50V 1000P

Ref. No.	Part No.	Values & Remarks
C701-704	ECKR1H103ZF5	50V 0.01U
C705	ECA1EPT102LE	25V 1000U
C706	ECA1CPT222LE	16V 2200U
C707	ECEA1CU221B	16V 220U
C708	ECEA1VU101B	35V 100U
C709	ECEA1VK100B	35V 10U
C710, 711	ECKR1H103ZF5	50V 0.01U
C712	ECEA1VK3R3B	35V 3.3U
C713	ECEA1VU101B	35V 100U
C715-718	ECKR1H103ZF5	50V 0.01U
C719	ECEA1CK100B	16V 10U
C720	ECFR1E104ZF5	25V 0.1U
C901	ECEA0JU471B	6.3V 470U
C902	ECBT1E103ZF5	25V 0.01U
C903, 904	ECBT1H150JC5	50V 15P
C905	ECKR1H103ZF5	50V 0.01U
C906	ECEA25M4R7RB	25V 4.7U
C907	ECEA1HKR47B	50V 0.47U
C908	ECFR1E223KR	25V 0.022U
C909	ECKR1H103ZF5	50V 0.01U
C910	ECKR1H223ZF5	50V 0.022U
C911	ECKR1H103ZF5	50V 0.01U
C912, 913	ECBT1H470J5	50V 47P
C914	ECKR1H103ZF5	50V 0.01U
C915, 916	ECEA0JU102B	6.3V 1000U
C918	ECEA1CK100B	16V 10U
C919	ECEA1VK3R3B	35V 3.3U
C921	ECEA0JU101B	6.3V 100U
C922-927	ECBT1H101KB5	50V 100P
C951	ECBT1E223ZF5	25V 0.022U
C952	ECEA1HK010B	50V 1U

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RKM0032-K	CABINET	K
1	RKM0032-S	CABINET	S
2	SNE2129-1	SCREW	K
2	SNE2129	SCREW	S
3	RGR0018A-V	REAR PANEL	(E)
3	RGR0018A-U	REAR PANEL	(EB)
4	RGU0030	POWER BUTTON	K
4	RGU0030-S	POWER BUTTON	S
5	RGW0024-K	TUNING KNOB	K
5	RGW0024-S	TUNING KNOB	S
5-1	XXE4D5FZS	SCREW	
7	RMA0074	HOLDER	
8	RFKJT610LE-K	CHASSIS ASS'Y	
8-1	RKA0009-1	FOOT	
8-2	XTB3+6J	SCREW	
9	SHE187-2	HOLDER	
10	SNE4021	NUT	
11	XTBS3+8JFZ1	SCREW	
12	XTB3+20JFZ	SCREW	
13	XTB3+8JFZ	SCREW	
14	SHG6374-2	SPACER	
15	RGK0089-K	ORNAMENT	K
15	RGK0089-S	ORNAMENT	S
16	RFKNTG560E-K	FRONT GRILL	K
16	RFKNTG560E-S	FRONT GRILL	S
17	RGU0111-K	FUNCTION BUTTON	K
17	RGU0111-S	FUNCTION BUTTON	S
18	RGU0112-K	PRESET BUTTON	K
18	RGU0112-S	PRESET BUTTON	S

Ref. No.	Part No.	Part Name & Description	Remarks
19	RGU0113-K	MODE BUTTON	K
19	RGU0113-S	MODE BUTTON	S
20	RJH3201N	TERMINAL BOARD	
21	SJT390	FUSE HOLDER	⚠
22	RMR0128	FL HOLDER	
23	RFKGTG570LEK	FRONT PANEL	K
23	RFKGTG570LES	FRONT PANEL	S
		PACKING MATERIAL	
P1	RPG0513	CARTON BOX	K
P1	RPG0514	CARTON BOX	S
P2	SPSD152	ACCESSORIES BOX	
P3	RPN0124-1	PAD	
P4	XZB52X60A01Z	PROTECTION COVER	
		ACCESSORIES	
A1	RQA0013	WARRANTY CARD	
A2	RQCB0169	SERVICENTOR LIST	
A3	RFKSTG570LEK	INSTRUCTIONS MANUAL	(E)
A3	RQT0514-G	INSTRUCTIONS MANUAL	(EB)
A4	SFDAC05E03	AC CORD	⚠(E)
A4	SJA193	AC CORD	⚠(EB)
A5	SJP2276	CORD	
A6	SPB1162T	AM LOOP ANTENNA	
A6-1	SMA233-1M	HOLDER	
A6-2	SMA231M	HOLDER	
A6-3	XTB3+10AFZ	SCREW	
A7	SSA270M	FM ANTENNA	
A8	SJP9009	AC PLUG ADAPTOR	⚠(EB)

■ EXPLODED VIEW



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